

WHAT IS CLAIMED IS:

- 1           1. A transmitter circuit comprising:  
2                 an oscillator circuit including a surface acoustic wave (SAW)  
3                 resonator, the oscillator circuit generating a carrier signal; and  
4                 an amplifier circuit receiving the carrier signal and receiving a data  
5                 signal, the amplifier circuit generating an output signal as the carrier signal  
6                 modulated with the data signal.
  
- 1           2. The transmitter circuit of claim 1 further comprising:  
2                 an antenna coupled to the amplifier circuit to transmit the output  
3                 signal.
  
- 1           3. The transmitter circuit of claim 1 further comprising:  
2                 control logic configured to generate the data signal.
  
- 1           4. The transmitter circuit of claim 3 wherein the control logic  
2                 comprises:  
3                 a microprocessor.
  
- 1           5. The transmitter circuit of claim 3 further comprising:  
2                 an assertable switch connected to the control logic, wherein the  
3                 control logic is configured such that assertion of the switch causes the control logic  
4                 to generate the data signal.
  
- 1           6. The transmitter circuit of claim 1 wherein the oscillator circuit  
2                 further comprises:  
3                 a bipolar junction transistor.
  
- 1           7. The transmitter circuit of claim 1 wherein the amplifier circuit  
2                 further comprises;  
3                 a bipolar junction transistor.

1                   8. The transmitter circuit of claim 1 wherein the carrier signal has  
2 a frequency of at least 300 MHz.

1                   9. An article of manufacture comprising:  
2                   a housing;  
3                   at least one circuit board;  
4                   an oscillator circuit on the at least one circuit board, the oscillator  
5 circuit including a surface acoustic wave (SAW) resonator, the oscillator circuit  
6 generating a carrier signal; and  
7                   an amplifier circuit on the at least one circuit board, the amplifier  
8 circuit receiving the carrier signal and receiving a data signal, the amplifier circuit  
9 generating an output signal as the carrier signal modulated with the data signal.

1                   10. The article of claim 9 further comprising:  
2                   an antenna coupled to the amplifier circuit to transmit the output  
3 signal.

1                   11. The article of claim 9 further comprising:  
2                   control logic configured to generate the data signal.

1                   12. The article of claim 11 wherein the control logic comprises:  
2                   a microprocessor.

1                   13. The article of claim 11 further comprising:  
2                   an assertable switch connected to the control logic, wherein the  
3 control logic is configured such that assertion of the switch causes the control logic  
4 to generate the data signal.

1                   14. The article of claim 9 wherein the oscillator circuit further  
2 comprises:  
3                   a bipolar junction transistor.

1                           15. The article of claim 9 wherein the amplifier circuit further  
2 comprises;  
3                           a bipolar junction transistor.

1                    16. The article of claim 9 wherein the carrier signal has a  
2 frequency of at least 300 MHz.

1                   17. A method of transmitting comprising:  
2                   generating a carrier signal with an oscillator circuit including a  
3 surface acoustic wave (SAW) resonator;  
4                   generating a data signal;  
5                   generating an output signal with an amplifier circuit receiving the  
6 carrier signal and receiving the data signal, the amplifier circuit generating an output  
7 signal as the carrier signal modulated with the data signal; and  
8                   transmitting the output signal.